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 APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,391	05/22/2006	Marco Eduardo Marques	043040203909US0	1984
	7278 7590 05/01/2007 DARBY & DARBY P.C.		EXAMINER	
P. O. BOX 525			DUONG, THO V	
NEW YORK, NY 10150-5257			ART UNIT	PAPER NUMBER
		•	3744	
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· .			MAIL DATE	DELIVERY MODE
			05/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/565,391	MARQUES, MARCO EDUARDO				
Office Action Summary	Examiner	Art Unit				
	Tho v. Duong	3744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on 20 January 2006. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/15/06	Paper No	Summary (PTO-413) s)/Mail Date Informal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kazuo (JP 63131989). Kazuo discloses figures (1-2) an evaporator comprising a tube extension presenting an inlet and an outlet, characterized in that the tube extension comprises at least two tube portions (11a,11b) arranged in series and having different diameters, which is capable of perform the function as claimed; a transition region (the right connecting portion) has a diameter that varies gradually between the diameter of the tube portions (11a,11b) connecting between the two tube portions.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuo in view of Mitchell et al. (US 5,910,166). Kazuo substantially discloses all of applicant's claimed invention as discussed above except for the limitation that the transition region is a frustoconical, an annular tube portion disposed orthogonal to the axis of the tube portions. Mitchell

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discloses (figures 1 and 4-6) that a transition region tube (64) that connects two different sizes tube portions can be a frusto-conical annular tube portion that disposed orthogonal to the axis of the tube portions for a purpose of smoothing the transition flow of the fluid between two different sizes of tube portions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use Mitchell's teaching in Kazuo's device for a purpose of smoothing the transition flow of the fluid between two different sizes of the tube portions.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Murnane et al. (US 4,408,467) discloses a noise suppressing feeder tube for a refrigerant circuit.

Drury et al. (US 3,531,947) discloses a refrigeration system.

Baldus (US 4,169,361) discloses a heat exchanger that has a connecting tube connecting two tube portions.

Pohl (US 4,150,558) discloses a method for forming a variable restrictor.

A. R. Harris (US 2,702,993) discloses a hermetic connector.

Bartlett (EP 0407353B1) discloses a tube connector.

Phelps (US 5,755188) discloses a heat exchanger with a transitional tube.

Fujitaka et al. (US 6,550,273) discloses an air conditioner.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tyler J. Cheryl can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tho v Duong

Primary Examiner

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TD

April 24, 2007